

# 6CZ5

## Beam Power Tube

### 9-PIN MINIATURE TYPE

With Heater Having Controlled Warm-Up Time

#### GENERAL DATA

##### Electrical:

Heater, for Unipotential Cathode:

Voltage (AC or DC) . . . . .	6.3	volts
Current . . . . .	0.45 ± 6%	amp
Warm-up time (Average) . . . . .	11	sec

Direct Interelectrode Capacitances:▲

Grid No.1 to plate. . . . .	0.4 max.	μf
Grid No.1 to cathode & grid No.3, grid No.2, and heater. . . . .	9	μf
Plate to cathode & grid No.3, grid No.2, and heater. . . . .	6	μf

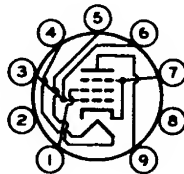
##### Characteristics, Class A<sub>1</sub> Amplifier:

Plate Voltage . . . . .	75	250	volts
Grid-No.2 Voltage . . . . .	250	250	volts
Grid-No.1 Voltage . . . . .	0	-15	volts ←
Plate Resistance (Approx.) . . . . .	-	73000	ohms
Transconductance . . . . .	-	4800	μmhos
Plate Current . . . . .	130●	46	ma
Grid-No.2 Current . . . . .	16●	4.6	ma
Grid-No.1 Voltage (Approx.) for plate μa = 100. . . . .	-	-40	volts ←

##### Mechanical:

Operating Position. . . . .	Any
Maximum Overall Length. . . . .	3-1/16"
Maximum Seated Length. . . . .	2-13/16"
Length, Base Seat to Bulb Top (Excluding tip). . . . .	2-7/16" ± 3/32"
Maximum Diameter. . . . .	0.750" to 0.875"
Dimensional Outline . . . . .	See <i>General Section</i>
Bulb. . . . .	T6-1/2
Base. . . . .	Small-Button Noval 9-Pin (JEDEC No.E9-1)
Basing Designation for BOTTOM VIEW. . . . .	9HN

Pin 1 - Grid No.2  
Pin 2 - No Connec-  
tion  
Pin 3 - Grid No.1  
Pin 4 - Heater  
Pin 5 - Heater  
Pin 6 - Grid No.1



Pin 7 - Cathode,  
Grid No.3  
Pin 8 - Internal  
Connection—  
Do Not Use  
Pin 9 - Plate

← Indicates a change.



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## VERTICAL-DEFLECTION AMPLIFIER

### → Maximum Ratings, Design-Maximum Values:

*For operation in a 525-line, 30-frame system\**

DC PLATE VOLTAGE. . . . .	350	max.	volts
PEAK POSITIVE-PULSE PLATE VOLTAGE†. . . .	2200	max.	volts
DC GRID-No.2 (SCREEN-GRID) VOLTAGE. . . .	315	max.	volts
PEAK NEGATIVE-PULSE GRID-No.1 (CONTROL-GRID) VOLTAGE. . . . .	275	max.	volts
CATHODE CURRENT:			
Peak. . . . .	155	max.	ma
Average . . . . .	45	max.	ma
GRID-No.2 INPUT . . . . .	2.2	max.	watts
PLATE DISSIPATION . . . . .	10	max.	watts
PEAK HEATER-CATHODE VOLTAGE:			
Heater negative with respect to cathode .	200	max.	volts
Heater positive with respect to cathode .	200	max.	volts
BULB TEMPERATURE (At hottest point on bulb surface). . . . .	250	max.	°C

### Maximum Circuit Values:

Grid-No.1-Circuit Resistance:

For fixed-bias operation. . . . .	0.5	max.	megohm
For cathode-bias operation. . . . .	1	max.	megohm

▲ without external shield.

● This value can be measured by a method involving a recurrent wave form such that the maximum ratings of the tube will not be exceeded.

★ As described in "Standards of Good Engineering Practice Concerning Television Broadcast Stations," Federal Communications Commission.

◆ This rating is applicable when the duration of the voltage pulse does not exceed 15 per cent of one vertical scanning cycle. In a 525-line, 30-frame system, 15 per cent of one vertical scanning cycle is 2.5 milliseconds.

♣ The dc component must not exceed 100 volts.

→ Indicates a change.

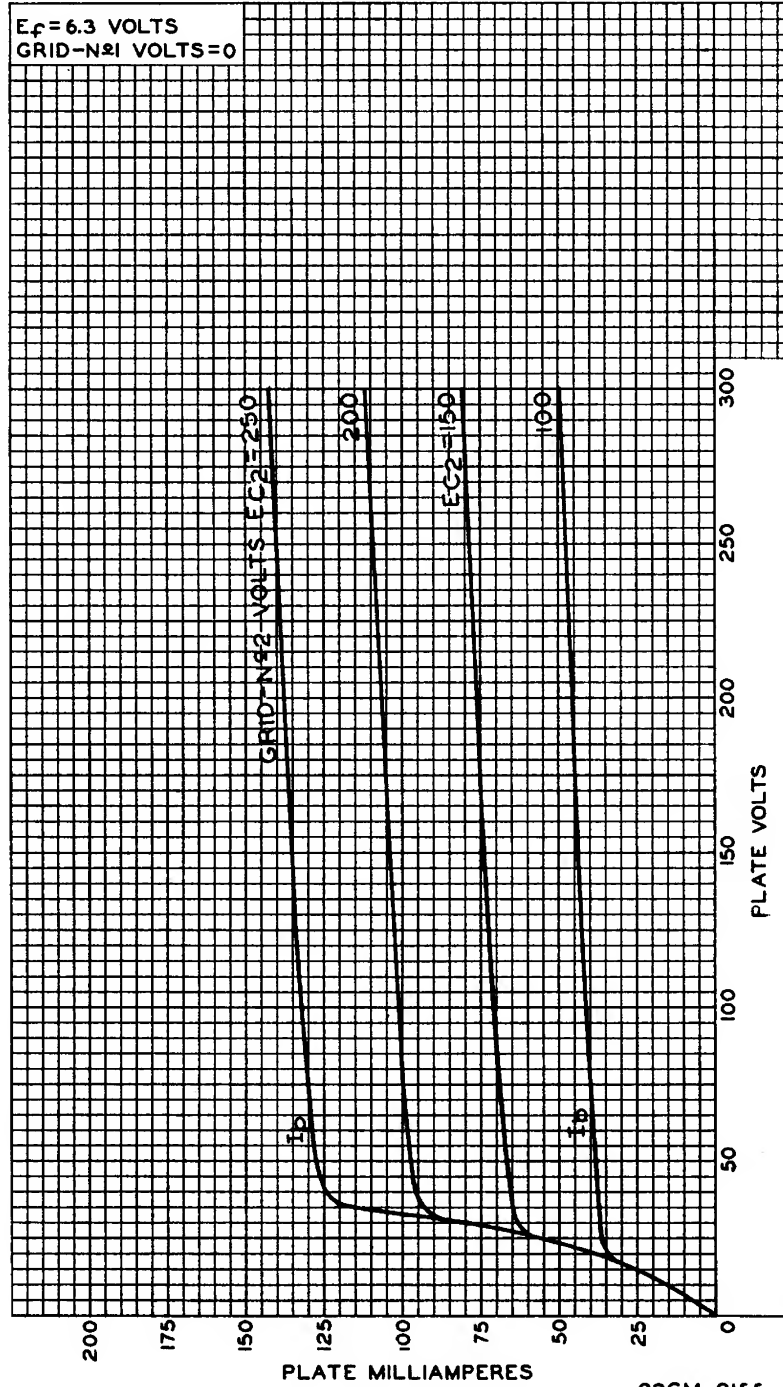
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## AVERAGE PLATE CHARACTERISTICS

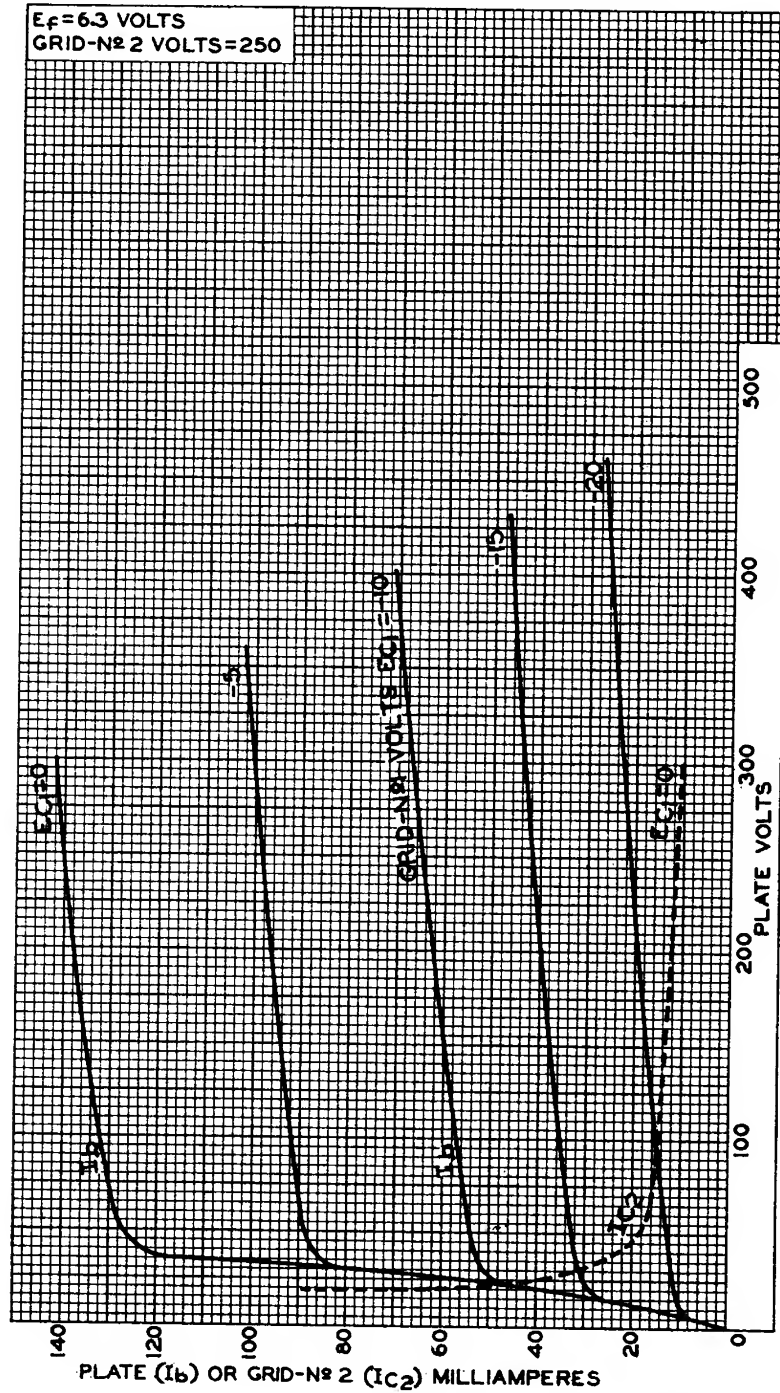


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## AVERAGE CHARACTERISTICS



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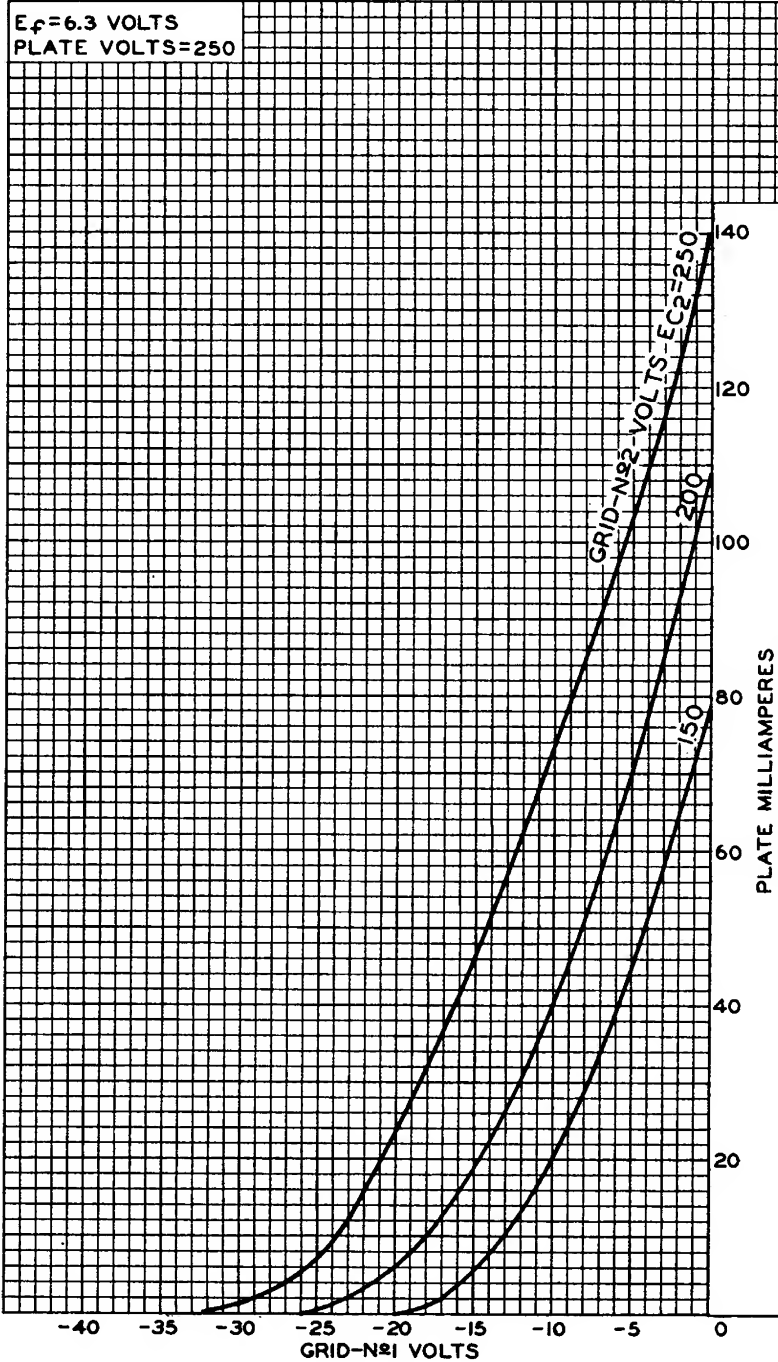
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## AVERAGE CHARACTERISTICS



92CM-9156R1



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